

## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:

obtaining signal data from probes on a chemical array comprising a plurality of probes at locations on the chemical array;

~~retrieving from a memory or reading an array identifier for a chemical array with probes at multiple feature locations; and~~

~~forwarding the array identifier a request for providing a test request for which requires an instruction on reading or processing the signal data from a sub-array of probes on the chemical array; read from the array, and payment information to a remote location~~

retrieving an instruction from a plurality of instructions stored in a memory, each instruction retrievable with a different test request, based on the test request provided; and

reading or processing the signal data for the sub-array according to the retrieved instruction.

2. (Canceled) Please cancel claim 2 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

3. (Canceled) Please cancel claim 3 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

4. (Canceled) Please cancel claim 4 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

5. (Currently Amended) A method according to claim 1 ~~3~~ additionally comprising repeating the ~~retrieving or reading, the forwarding, and the providing, retrieving, and reading or processing receiving~~ one or more times each time with a different test request, and wherein the retrieving comprises ~~retrieving receiving comprises receiving~~ different instructions in each repetition.

6. (Currently Amended) A method according to claim 1 ~~3~~ wherein at least one of said instructions the instruction comprises an instruction for processing a sub-array pattern.

7. (Currently Amended) A method according to claim 6 wherein at least one of said instructions ~~the instruction additionally~~ comprises an indication that only signal data from feature locations in the sub-array need be read or processed.

8. (Canceled) Please cancel claim 8 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

9. (Canceled) Please cancel claim 9 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

10. (Currently Amended) A method according to claim 6 wherein the sub-array pattern is received from a memory ~~at the remote memory~~ which carries multiple sub-array patterns for the chemical array, each said sub-array pattern being retrievable with a different test request.

11. (Currently Amended) A method according to claim 10 wherein said processing the signal data comprises processing is acquired only signal data from features within the ~~of the~~ received sub-array pattern, as applied to the chemical array.

12. (Currently Amended) A method according to claim 10, further comprising transmitting results ~~additionally comprising generating a result~~ from acquired signal data only from those array feature locations of the retrieved sub-array pattern.

13. (Currently Amended) A method according to claim 12 wherein the results do ~~result does~~ not provide any indication of which feature locations of the chemical array are bound to a sample component.

14. (Canceled) ) Please cancel claim 14 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

15. (Canceled) Please cancel claim 15 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

16. (Canceled) Please cancel claim 16 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

17. (Canceled) Please cancel claim 17 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

18. (Canceled) Please cancel claim 18 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

19. (Canceled) Please cancel claim 19 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

20. (Canceled) Please cancel claim 20 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

21. (Canceled) Please cancel claim 21 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

22. (Canceled) Please cancel claim 22 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

23. (Canceled) Please cancel claim 23 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

24. (Canceled) Please cancel claim 24 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

25. (Canceled) Please cancel claim 25 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

26. (Canceled) Please cancel claim 26 without prejudice to the possibility of filing one or more

continuing applications directed to the subject matter recited therein.

27. (Canceled) Please cancel claim 27 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

28. (Canceled) Please cancel claim 28 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

29. (Canceled) Please cancel claim 29 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

30. (Canceled) ) Please cancel claim 30 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

31. (Canceled) Please cancel claim 31 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

32. (Canceled) Please cancel claim 32 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

33. (Canceled) Please cancel claim 33 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

34. (Canceled) Please cancel claim 34 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

35. (Canceled) Please cancel claim 35 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

36. (Canceled) Please cancel claim 36 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

37. (Canceled) Please cancel claim 37 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

38. (Canceled) Please cancel claim 38 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

39. (Canceled) Please cancel claim 39 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

40. (Canceled) Please cancel claim 40 without prejudice to the possibility of filing one or more continuing applications directed to the subject matter recited therein.

41. (New) The method of claim 1, further comprising providing an array identifier, said array identifier identifying the chemical array, and wherein said retrieving an instruction is performed based on said test request and said array identifier.

42. (New) The method of claim 1, further comprising providing account information to the system.

43. (New) The method of claim 42, further comprising charging an account at a location of the system, for processing according to the test request forwarded to the system.

44. (New) The method of claim 1, further comprising transmitting results of said processing to a user at a location remote from said system.

45. (New) The method of claim 1, wherein the at least one instruction comprises an indication that only signal data from feature locations in the sub-array need be read or processed.

46. (New) The method of claim 42, additionally comprising providing to a requestor of the test a price for the test requested.

47. (New) The method of claim 1, wherein at least one instruction comprises an instruction on

processing read signal data.

48. (New) The method of claim 1, wherein at least one instruction comprises a data processing instruction or a parameter for a method which performs array signal data interpretation.

49. (New) The method of claim 1, wherein said signal data is obtained from labeled target molecules bound to one or more probes on the chemical array.